55-1520-227-PM

TECHNICAL MANUAL

CH-47B AND CH-47C HELICOPTERS

PHASED MAINTENANCE CHECKLIST

This copy is a reprint which includes current pages from Changes 1 through 4.

This manual supersedes TM 55-1520-227-PM, 11 April 1979, including all changes.

HEADQUARTERS, DEPARTMENT OF THE ARMY

8 October 1982

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TM 55-1520-227-PM
C 4

CHANGE
NO. 4

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 13 May 1988

CH-47B AND CH-47C HELICOPTERS
PHASED MAINTENANCE CHECKLIST

TM 55-1520-227-PM, 8 October 1982, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
2-9 and 2-10	2-9 and 2-10
2-15 and 2-16	2-15 and 2-16
2-23 and 2-24	2-23 and 2-24

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

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Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
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DISTRIBUTION:
To be distributed in accordance with DA Form 12-31, PM requirements for CH-47B and CH-47C Helicopter, Cargo Transport.

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TM 55-1520-227-PM
C 3

CHANGE
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CH-47B AND CH-47C HELICOPTERS
PHASED MAINTENANCE CHECKLIST

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Remove pages	Insert pages
1-7 through 1-10	1-7 through 1-10
2-7 and 2-8	2-7 and 2-8
2-11 through 2-14	2-11 through 2-14
2-17 through 2-22	2-17 through 2-22
2-33 and 2-34	2-33 and 2-34
2-39 and 2-40	2-39 and 2-40

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CHANGE NO. 2

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CH-47B AND CH-47C HELICOPTERS
PHASED MAINTENANCE CHECKLIST

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1-3 and 1-4	1-3 and 1-4
2-17 and 2-18	2-17 and 2-18
2-21 and 2-22	2-21 and 2-22

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TM 55-1520-227-PM
C 1

CHANGE
No. 1

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 5 June 1984

CH-47B AND CH-47C HELICOPTERS
PHASED MAINTENANCE CHECKLIST

TM 55-1520-227-PM, 8 October 1982, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
2-39 and 2-40	2-39 and 2-40

2. Retain this sheet in front of manual for reference purposes.

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *8 October 1982*

CH-47B AND CH-47C HELICOPTERS PHASED MAINTENANCE CHECKLIST

WARNING

CERTAIN INSPECTIONS ARE MANDATORY SAFETY-OF-FLIGHT REQUIREMENTS, AND THE INSPECTION INTERVALS CANNOT BE EXCEEDED. IN THE EVENT THESE INSPECTIONS CANNOT BE ACCOMPLISHED AT THE SPECIFIED INTERVAL, THE AIRCRAFT CONDITION STATUS SYMBOL WILL BE IMMEDIATELY CHANGED TO A RED X.

NOTE

INSPECTION ITEMS CONTAINED IN THIS MANUAL ARE CONSIDERED THE MINIMUM REQUIREMENTS FOR PERFORMING PHASED MAINTENANCE AND MUST BE PERFORMED. THE CUMULATIVE EFFECTS OF INSPECTION DEFERRALS ARE UNKNOWN AND COULD RESULT IN CATASTROPHIC FAILURE OR INCREASED MAINTENANCE AT A LATER DATE.

SECTION I - GENERAL INFORMATION

1-1. PHASED SCHEDULE.

This phased maintenance inspection checklist contains requirements for inspection of the CH-47B/C aircraft on a phased schedule having a 800 hour (flight hours) cycle with 200 hour phases. Each requirement included herein is designated for accomplishment at least once, but not more than four times during the 800 hour cycle.

1-2. EXCEEDING THE PHASED SCHEDULE.

The phased maintenance inspection intervals designated are the maximum and shall not be exceeded except in actual operational emergencies as explained herein. It is the Commander's responsibility to determine (on an individual aircraft basis) when inspection intervals may be exceeded. For this purpose, operational emergencies are conditions of combat, or conditions of disaster which necessitate flight to evacuate aircraft or personnel. When aircraft are operated beyond the normal inspection duetime because of such emergency situations, a circled red X status symbol and an appropriate statement (to include authority) must be entered in block 16 and 17 of DA Form 2408-13 (Aircraft Inspection and Maintenance Record) until such time as the inspection is complete. When inspections are delayed to meet emergency requirements, Commanders will assure that the aircraft status symbol reverts to a red "X" and that delayed inspections are accomplished immediately upon termination of the actual emergency. When unusual local conditions (utilization, type of mission personnel, periods of inactivity, environmental conditions, etc.) dictate, it is the prerogative and responsibility of the Maintenance Officer to increase the scope and/or frequency of maintenance or inspection as necessary to insure safe operation (TM 55-1500-328-25).

1-3. MAINTENANCE ACTIVITIES.

The inspections prescribed by this checklist will be accomplished at specified phases by Aviation Unit Maintenance (AVUM) activities with assistance of Aviation Intermediate Maintenance (AVIM) and Depot Maintenance activities when required. Space is provided for inspecting personnel to record faults and/or remarks and corrective actions taken.

1-4. LIMITATIONS.

The checklist does not contain instructions for repair, adjustment or other means of rectifying conditions. Neither does it contain special tolerances, limits or instructions for special troubleshooting to find causes for malfunctions. Such data will be obtained from the TM 55-1520-227-23 series maintenance manuals.

1-5. CHANGEOVER TO THE PHASED MAINTENANCE SYSTEM.

Changeover shall be accomplished in accordance with instructions provided in TB 55-1500-337-24 entitled, "Phased Maintenance System for Army Aircraft". The requirements of this TB must be accomplished prior to implementation of Phase 1 inspection requirements specified in this checklist.

1-6. PRE-INSPECTION MAINTENANCE TEST FLIGHT (MTF).

A pre-inspection MTF to duplicate non-hazardous equipment problems, determine unsatisfactory conditions, determine equipment operation problems, etc. is recommended prior to start of aircraft disassembly for Phased Maintenance Inspection. The decision to perform the pre-inspection MTF, however, shall be the responsibility of the unit Maintenance Officer.

1-7. SPECIAL INSPECTIONS, CALENDAR INSPECTIONS, AND LUBRICATION REQUIREMENTS.

Special inspections, calendar inspections, and lubrication requirements contained in TM 55-1520-227-23-1 and those listed on the aircraft's DA Form 2408-18 shall be reviewed and accomplished in accordance with the "inspection due" requirements specified in those documents.

1-8. TIME BETWEEN OVERHAUL (TBO) AND RETIREMENT LIFE ITEMS CHECK.

Prior to start of the applicable phased maintenance inspection, a check will be made of components and their remaining operating hours prior to removal. The latest issue of TM 55-1520-227-23 and DA Form 2408-16 shall be referred to for a complete listing of components and their TBO and retirement life.

1-9. USING THE PHASED INSPECTION CHECKLIST.

For use of the Phased Inspection Checklist refer to TM 38-750.

1-10. FINAL RECORDS CHECK.

After all corrective actions have been completed and following completion of the phased inspection, the Technical Inspector or designated supervisor shall verify that all applicable forms and records have been properly updated. All uncorrected faults shall be entered on DA Form 2408-13, prepared for that date or to the DA Form 2408-14. A Final Records Checklist (table 1-1) is provided to ensure forms and records have been inspected for completeness and accuracy prior to release of the aircraft from the phased maintenance inspection. The inspector verifying the final records check shall enter his initials adjacent to the indicated form or record on the Final Records Checklist. The initials entered shall be registered on the Signature Sheet (table 1-2) adjacent to that person's signature.

1-11. SIGNATURE SHEET.

All personnel performing inspection and/or maintenance tasks shall place their signatures and initials on the Signature Sheet, Table 1-2. The purpose of the signature sheet is to provide a correlation between initials entered on the individual checklist sheets and the actual names of the personnel accomplishing these tasks.

1-12. MAINTENANCE OPERATIONAL CHECKS.

After the completion of any required corrective actions to any of the components of a functional system of the aircraft, Maintenance Operational Checks (MOC) shall be performed on that system to determine the effectiveness of the maintenance actions performed and to verify the proper operation of that system. These MOC shall be performed in accordance with TM 55-1500-328-25. Copies of the Supplemental Sheets (DA Form 4676-R) may be used to record and sign off the MOC performed.

1-13. MAINTENANCE TEST FLIGHT.

The MTF shall be performed in accordance with the requirements of TM 55-1500-210-MTF and TM 55-1500-328-25 using the MTF form in the MTF technical manual. For the convenience of maintenance personnel, a Maintenance Test Flight Checksheet is provided in figure 1-1.

1-14. CHECKLIST DISPOSITION.

The completion of each phased maintenance shall be recorded on DA Form 2408-13 and DA Form 2408-15 as prescribed by DA PAM 738-751. The signed checklist, together with all continuation sheets, shall be attached to DA Form 2408-13, and filed for the six month period as required by DA PAM 738-751. At the end of the six month period, these records will be forwarded to: Commander, Corpus

Christi Army Depot, ATTN: AMSAV-7R Corpus Christi, TX 78413-6195.

1-15. INSPECTION AREAS.

Figure 1-2 reflects the inspection areas of the CH-47B/C aircraft. Figure 1-3 shows the location of access doors and panels which require removal at various phased maintenance inspections.

1-16. SERIAL NUMBER AND EQUIPMENT INVENTORY CHECK.

After all corrective actions have been completed and following completion of the Phased Inspection, the Technical Inspector or designated supervisor shall make a serial number verification check per DA Form 2408-16 (Aircraft Component Historical Record) and an aircraft equipment inventory check per DA Form 2408-17 (Aircraft Inventory Record). Serial numbers on DA Form 2408-16 in the Aircraft Logbook shall be updated where necessary to correspond to the current serial number of the component on the aircraft. Aircraft equipment listed on DA Form 2408-17 in the Aircraft Logbook shall be on the aircraft or otherwise accounted for (Table 1-3).

1-17. REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS.

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, US Army Troop Support and Aviation Materiel Readiness Command. ATTN: DRSTS-MPSD, 4300 Goodfellow Blvd., St. Louis, Missouri 63120. A reply will be sent directly to you.

A/C MODEL & SERIAL NUMBER	DATE	PURPOSE OF TEST FLIGHT
PILOT'S NAME & UNIT		
GROSS WEIGHT: LBS. FAT °C	DENSITY ALTITUDE: FT.	

SYMBOLS: ✓ - SATISFACTORY, X - DEFICIENCY

	PRIOR TO MTF		19. Control travel
	1. Forms and records		20. Pedals
	2. Flight readiness inspection		neutral meas in.
	3. Weight and balance		21. Control break-out
	BEFORE STARTING ENGINES		22. Torquemeter (static)
	1. Battery busses		No. 1 No. 2
	2. Cockpit lighting		STARTING ENGINES
	3. Emergency beep		1. No. 1 Engine start
	4. Caution lights		a. 15 sec %N1
	5. Utility hydraulic switch		b. Eng oil press psi
	6. APU start		c. 45 sec %N1
	7. Aft transmission pressure		2. No. 2 Engine start
	8. Parking brake and		a. 15 sec %N1
	swivel locks		b. Eng oil press psi
	9. Windshield anti-ice		c. 45 sec %N1
	10. Pitot & SAS port heat		3. Beep operation (P&CP)
	11. Lights check		4. Bleed band operation
	12. Fire detection lights		5. Engine oil pressure
	13. T-handle fuel shutoff		a. No. 1 psi flux
	14. Crossfeed fuel valve		b. No. 2 psi flux
	15. Altimeters		6. Minimum beep
	16. Fuel gauge		a. Both rpm
	17. Control interference		b. No. 1 rpm
	18. Control centering		c. No. 2 rpm

REMARKS

	ENGINE RUNUP		a. Long measure in.
	1. Generator-rectifier check		b. Lateral measure in.
	2. Boost pump & crossfeed check		c. Pedal split in.
	3. Underfrequency check		5. LH crossfeed check (C)
	4. Xmsn pressure ind oper		a. Finish lbs.
	5. Xmsn temperature ind oper		b. Start lbs.
	6. Emergency beep operation		c. Total lbs. used
	7. Cargo hook operation		6. Engine anti-ice
	8. HIT check		7. Torque differential check
	TAXI CHECK		No. 1 No. 2
	1. Brake check		a. Torque
	2. Power steering		b. N1
	BEFORE TAKEOFF CHECKS		c. EGT/PTIT
	LIFT OFF		8. EGT/PTIT check
	1. Ground instability check		a. No. 1 °C NO. 2 °C
	2. SAS hydr & balance check		9. Droop eliminator
	HOVER CHECK		10. Heater operation
	1. RH crossfeed check (C)		11. Cowling & leak check
	a. Finish lbs.		LEVEL OFF CHECKS
	b. Start lbs.		Fuel consumption check
	c. Total lbs. used		Finish time lbs.
	2. SAS functional checks		Start time lbs.
	3. PSAS check (C)		Total time lbs.
	4. Control position check		Lbs/Hr

REMARKS

Figure 1-1. Maintenance Test Flight Check Sheet (Sheet 1 of 2)

INFLIGHT CHECKS

1. Speed sweep check
   - a. 50K (B&C)
   - b. 60K
     - (1) Long measure in.
     - (2) Lateral measure in.
     - (3) Pedal split in.
     - (4) Airspeed indicators
   - c. 70K (B&C)
   - d. 80K
     - Long measure in.
   - e. 90K
     - Manual speed trim operation
     - (A&B)
   - f. 100K
     - (1) Long measure in.
     - (2) Airspeed indicators
     - (3) SAS evaluation (A)
     - (4) PEAS evaluation - auto (C)
   - g. 110K
     - Manual speed trim operation
     - (C)
   - h. 120K
     - (1) PEAS evaluation - norm (C)
     - (2) Long measure in.
     - (3) Emergency exit doors (P&CP)
     - (4) STVA evaluation (C)
   - i. 122K or VNE (A) 140K (B&C)
     - (1) Long measure in.
     - (2) Lateral measure in.
     - (3) Pedal split in.
     - (4) Airspeed indicators
     - (5) 1/rev, 2/rev vib ck (A)
   - j. 150K (B&C)
     - (1) 1/rev, 2/rev vib ck (B&C)
     - (2) Coordinated turns
     - (3) Long measure in. (C)
   - k. 160K (C)
     - Speed trim extension
   - l. 150K (C)
   - m. 120K (B)
   - n. 100K (A&C)
     - Fwd speed trim (C)
   - o. 80K (A)
   - p. 60K (B&C)

2. Engine TEAC entry TQ

	No. 1	No. 2
Tgt N1		
Tgt TQ		
Tgt EGT/FTIT		
Pressure altitude ft.		
FAT °C		
Airspeed		
Rrpm		
Act N1		
Act TQ		
Act EGT/FTIT		

3. Autorotation
   - a. Pressure altitude ft.
   - b. FAT °C
   - c. Fuel quantity lbs.
   - d. Rrpm flat
   - e. Rrpm 5° detent
   - f. Pedal split in.
4. Nav & Commo
   - a. UHF
   - b. FM
   - c. Gyro & Mag compass
   - d. VOR
   - e. ADF
   - f. Marker beacon
   - g. Transponder
5. Record instrument indications

	No. 1	No. 2
FAT °C		
Pressure altitude ft.		
Rrpm		
N1		
TQ		
EGT/FTIT		
Eng oil temp		
Eng oil press		

Transmissions

FWD	psi	°C
AFT	psi	°C
MIX	psi	°C
L eng	psi	°C
R eng	psi	°C

Hydraulic boost

No. 1	psi
No. 2	psi
Utility	psi

BEFORE LANDING CHECKS

AFTER LANDING

ENGINE SHUTDOWN

1. Coastdown time
   - a. No. 1 sec.
   - b. No. 2 sec.

POST FLIGHT INSPECTION

COMPLETE/UPDATE FORMS

REMARKS

SIGNATURE:

Figure 1-1. Maintenance Test Flight Check Sheet (Sheet 2 of 2)

Table 1-1. Final Records Checklist

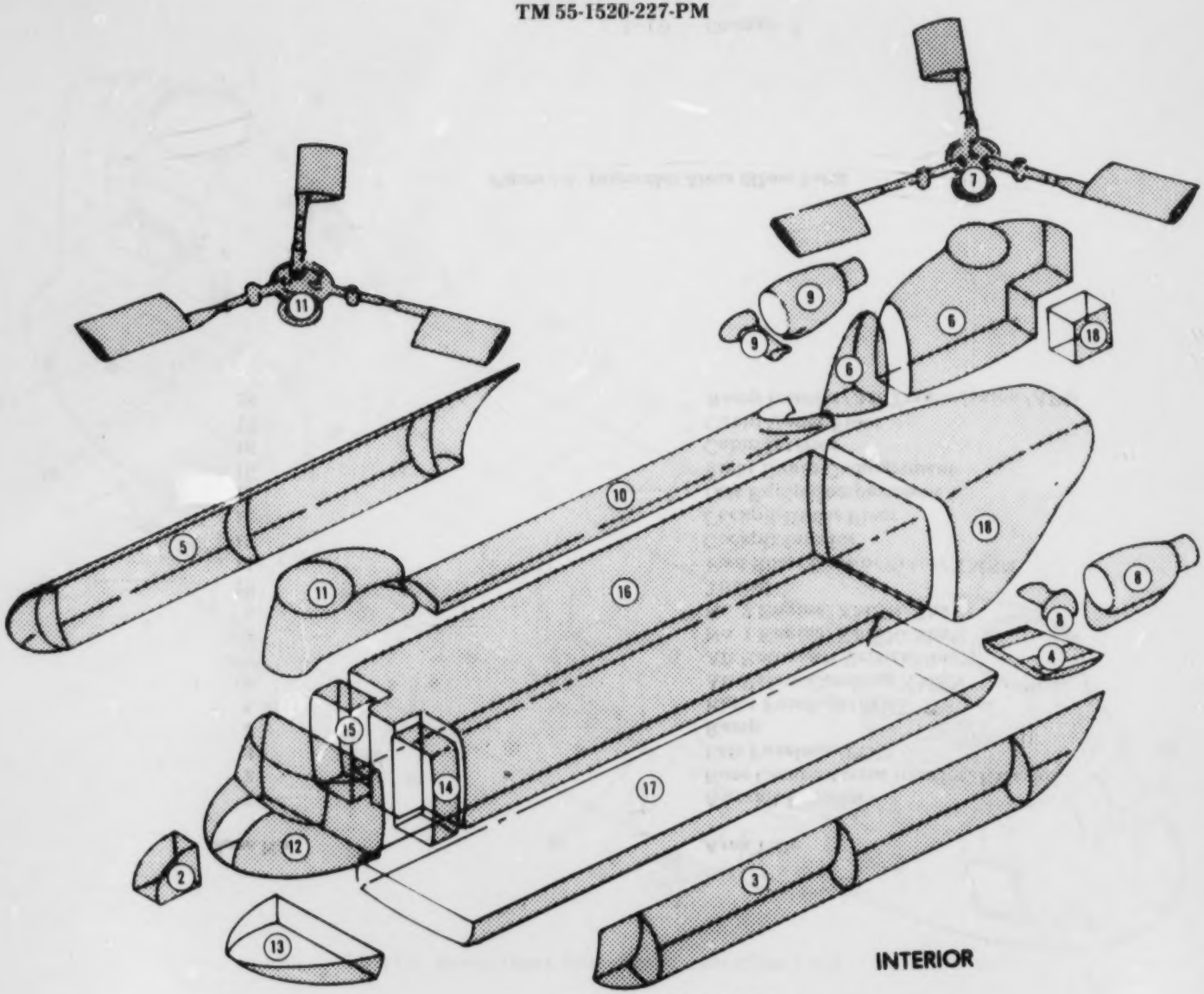
This checklist is provided to insure the indicated forms and records have been inspected for presence, completeness, legibility and accuracy prior to releasing the aircraft from a phase inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block.

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12			
DA FORM 2408-13			
DA FORM 2408-14		DA FORM 2408-9	
DA FORM 2408-18		DA FORM 2408-15	
DA FORM 2408-20		DA FORM 2408-16	
TM 55-1520-227-PMD		DA FORM 2408-17	
TM 55-1520-241-MTF		DA FORM 2408-19	
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		AOAP FILE	
CONFIGURATION CHART		INVENTORY RECORDS	
2405 LOG		WEIGHT AND BALANCE	
1352 REPORTS		MSG FILE	
LOCAL RECORDS		DA FORM 2410 SUBMITTED	
		LOCAL RECORDS	

Table 1-2. Signature Sheet

Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Maintenance Supervisor	Initial
Signature of Technical Inspector	Initial
Signature of Maintenance Officer	Initial


INTERIOR

Area No.	Area Title
1	Aircraft Exterior
2	Nose Compartment Interior/Exterior
3	Left Fuselage/POD
4	Ramp
5	Right Fuselage/POD
6	Aft Pylon/Combing XMSN
7	Aft Rotor/Aft Vertical Shaft
8	No. 1 Engine/XMSN/Shaft
9	No. 2 Engine/XMSN/Shaft
10	Tunnel
11	Fwd Rotor Crown/Rotor/XMSN
12	Cockpit Interior
13	Cockpit Under Floor
14	Left Equip Compartment
15	Right Equip Compartment
16	Cabin Interior
17	Cabin Under Floor
18	Ramp Interior/Aft Transmission/APU

Figure 1-2. Inspection Areas (Sheet 2 of 2)

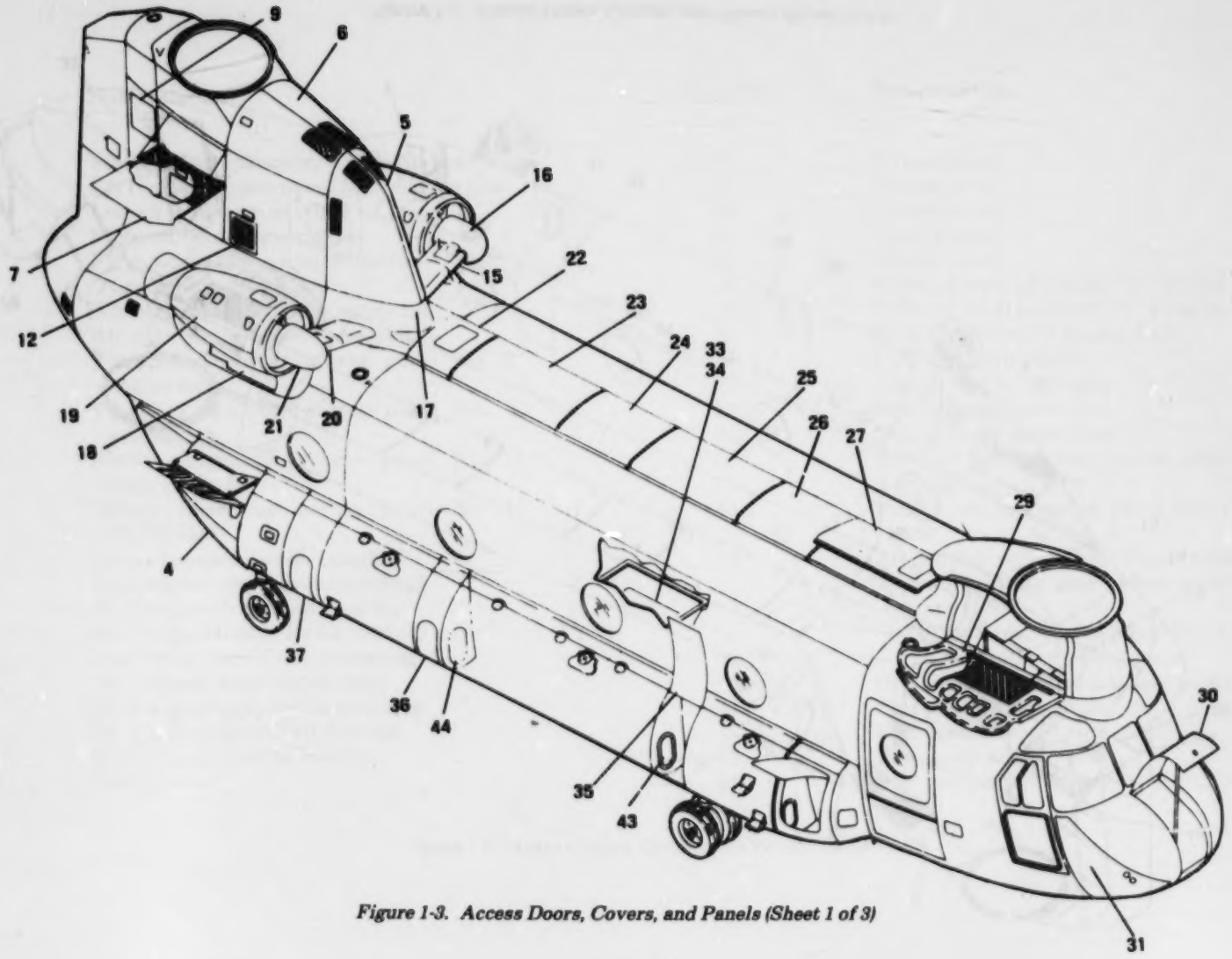


Figure 1-3. Access Doors, Covers, and Panels (Sheet 1 of 3)

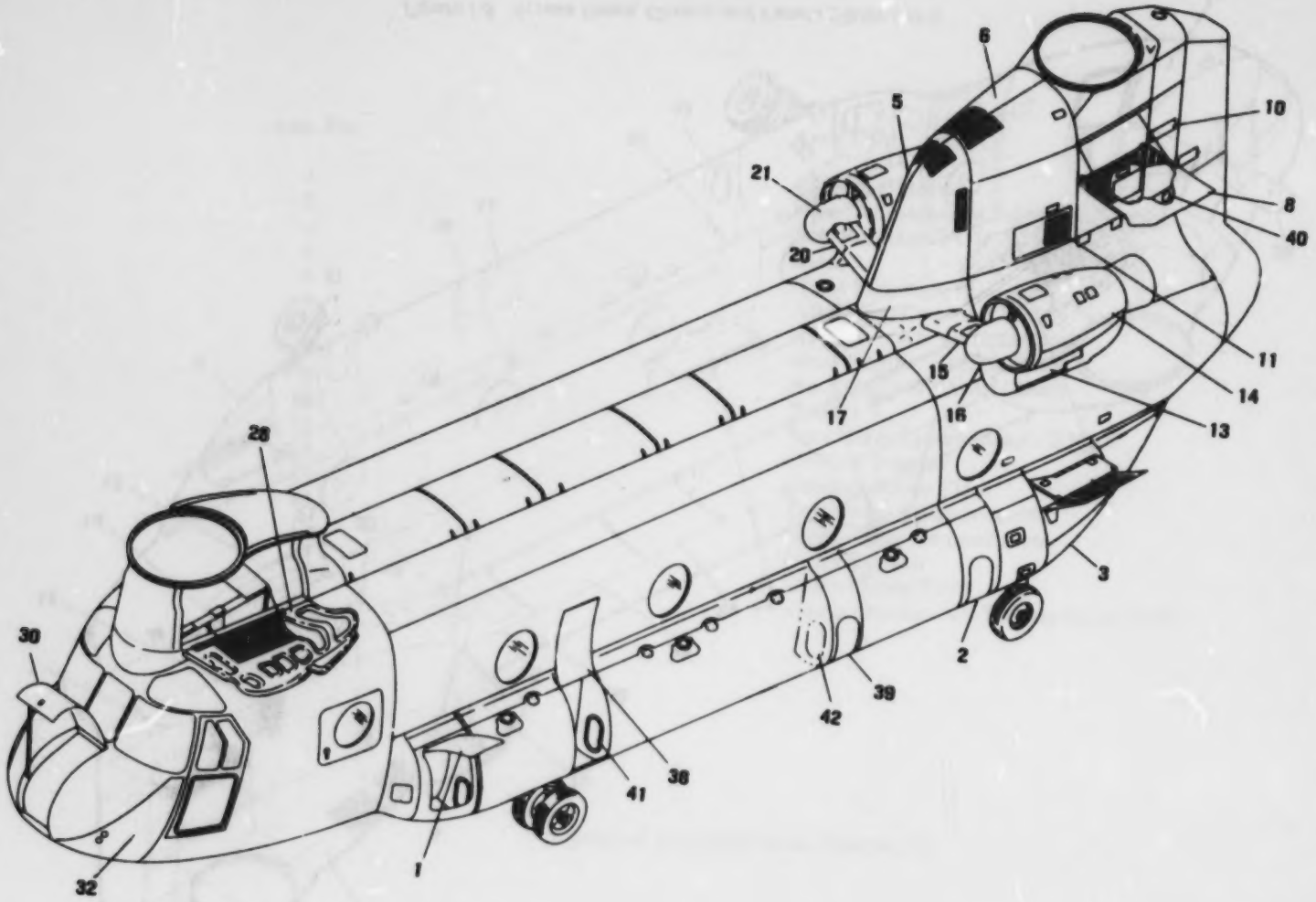


Figure 1-3. Access Doors, Covers, and Panels (Sheet 2 of 3)

Item No.	Nomenclature
1.	Electrical compartment access (Battery)
2.	Aft fuel pod access panel No. 1 engine side
3.	Left aft landing gear panel
4.	Right aft landing gear panel
5.	Pylon leading edge hinged fairing
6.	Oil cooler upper cowling
7.	Aft work platform No. 2 engine side
8.	Aft work platform No. 1 engine side
9.	Vibration absorber access panel No. 2 engine side
10.	Vibration absorber access panel No. 1 engine side
11.	Blower inspection access panel No. 1 engine side
12.	Blower inspection access panel No. 2 engine side
13.	Lower access door No. 1 engine
14.	No. 1 engine upper cover (cowling)
15.	No. 1 engine driveshaft cowling
16.	No. 1 engine transmission cowling
17.	Combining transmission cowling
18.	No. 2 engine lower access door
19.	No. 2 engine upper cover (cowling)
20.	No. 2 engine driveshaft cowling
21.	Engine transmission cowling
22.	Tunnel cover
23.	Tunnel cover
24.	Tunnel cover
25.	Tunnel cover
26.	Tunnel cover
27.	Tunnel cover
28.	Forward work platform No. 1 engine side
29.	Forward work platform No. 2 engine side
30.	Nose compartment access door
31.	Pilot seat floor panels
32.	Copilot seat floor panels
33.	Rescue hatch lower door
34.	Rescue hatch upper door
35.	Forward landing gear access panel No. 2 engine side
36.	Center pod fuel access panel No. 2 engine side
37.	Aft pod fuel access panel No. 2 engine side
38.	Forward landing gear access panel No. 1 engine side
39.	Center pod fuel access panel No. 1 engine side
40.	Utility hydraulic pump access panel
41.	Fuel pump access panel
42.	Fuel pump access panel
43.	Fuel pump access panel
44.	Fuel pump access panel

Figure 1-3. Access Doors, Covers, and Panels (Sheet 3 of 3)

PHASED MAINTENANCE CHECKLIST *(SUPPLEMENTAL SHEET)*

For use of this form, see TM 55-1510 series and TM 55-1520 series; the proponent agency is the US Army Material Development and Readiness Command.

DATE

PHASE NO	AREA NAME AND NUMBER	AIRCRAFT SERIAL NO	TOTAL HOURS THIS AREA

INSPECT AREA NO	INSPECT ITEM NO	INSPECTION REQUIREMENTS	STATUS	FAULTS AND/OR REMARKS	ACTION TAKEN	INITIAL

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

Table 1-3. CH-47 Serial Number Checklist

S/N 66-19135

DATE

FWD HEAD A-4- _____

FWD BLADES
- RED S/N A-1- _____
- GREEN S/N A-1- _____
- YELLOW S/N A-1- _____

FWD PITCH LINKS
- RED S/N _____
- P/N _____
- GREEN S/N _____
- P/N _____
- YELLOW S/N _____
- P/N _____

FWD FIXED LINK
- S/N _____
- P/N 114C _____

FWD SPEED TRIM
- S/N _____
- P/N 114CS _____

FWD DRIVE COLLAR _____

FWD DRIVE ARM _____

FWD S/PLATE _____

FWD PIVOT ACTUATOR
- S/N _____
- P/N 114H _____

FWD SWIVEL ACTUATOR
- S/N _____
- P/N 114H _____

FWD XMSN A-7- _____

FWD ADAPTER _____

SYNCH SHAFT
- #1 _____
- #2 _____
- #3 _____
- #4 _____
- #5 _____
- #6 _____
- #7 _____
- #8 _____
- #9 _____

AFT ADAPTER _____

COMB XMSN A-8- _____

#1 ENGINE LE _____

#1 ENG XMSN A-11- _____

#1 ENG D/SHAFT _____

#2 ENGINE LE _____

#2 ENG XMSN A-11- _____

#2 ENG D/SHAFT _____

AFT XMSN A-9- _____

APU _____

AFT VERT SHAFT _____

AFT DRIVE COLLAR _____

AFT DRIVE ARM _____

AFT HEAD A-5- _____

AFT S/PLATE _____

AFT SPEED TRIM ACTUATOR
- S/N _____
- P/N _____

AFT FIXED LINK
- S/N _____
- P/N _____

AFT PIVOT ACTUATOR
- S/N _____
- P/N _____

AFT SWIVEL ACTUATOR
- S/N _____
- P/N _____

AFT BLADES
- RED S/N A-2- _____
- GREEN S/N A-2- _____
- YELLOW S/N A-2- _____

AFT PITCH LINKS
- RED S/N _____
- P/N _____
- GREEN S/N _____
- P/N _____
- YELLOW S/N _____
- P/N _____

DCP ACTUATOR
- S/N _____
- P/N 114CS100- _____

GENERATOR PROTECTION PANEL
- #1 S/N _____
- P/N 114ES _____
- #2 S/N _____
- P/N 114ES _____
- "C" MODELS ONLY

NI ACTUATOR
- #1 ENG S/N _____
- P/N 114PS206- _____
- #2 ENG S/N _____
- P/N 114PS206- _____

NI CONTROL BOX
- #1 ENG S/N _____
- P/N 114ES283- _____
- #2 ENG S/N _____
- P/N 114ES283- _____

NI QUADRANT CONTROL
- S/N _____
- P/N 114ES282- _____

VIBRATION SELF-TUNING ABSORBERS
- NOSE S/N _____
- LEFT S/N _____
- RIGHT S/N _____

SECTION II - INSPECTION CHECKLIST

NOTE

PRIOR TO START OF THE PHASED MAINTENANCE INSPECTION, IT IS RECOMMENDED THAT A PRE-INSPECTION MAINTENANCE TEST FLIGHT (MTF) BE CONDUCTED. ACCOMPLISHMENT OF THE MTF SHALL BE DETERMINED BY THE UNIT MAINTENANCE OFFICER. THE PRE-INSPECTION MTF SHOULD BE CONDUCTED BY A MAINTENANCE TEST PILOT FOLLOWING A REVIEW OF THE AIRCRAFT FORMS AND RECORDS AND A BRIEFING FROM THE REGULAR FLIGHT CREW OF THE AIRCRAFT. THE MTF IS RECOMMENDED TO ASSESS THE AIRCRAFT PERFORMANCE AND IDENTIFY DEFICIENCIES THAT SHOULD BE CORRECTED WHILE THE AIRCRAFT IS UNDERGOING PHASED INSPECTION.

NOTE

CHECK ALL AREAS AND COMPONENTS ACCESSED BY THE PHASED INSPECTION FOR CORROSION. IF CORROSION IS DISCOVERED, CLEAN UP THE CORRODED AREA AND INSPECT FOR PITS AND/OR CRACKS. IF NO PITS OR CRACKS ARE FOUND TREAT THE AREA IN ACCORDANCE WITH TM 43-0105 OR OTHER APPROVED CORROSION PREVENTIVE PRACTICES. IF PITS OR CRACKS NOT COVERED BY AVAILABLE TMs ARE DISCOVERED, CONTACT THE LOCAL FIELD MAINTENANCE TECHNICIAN FOR CORRECTIVE PROCEDURES.

NOTE

THE TERM "DAMAGE OR CONDITION" REFERS, BUT IS NOT LIMITED TO: CRACKS, DISTORTION, CHAFING, ABNORMAL WEAR, LEAK, LOOSE OR MISSING RIVET, TORN OR WORN WEATHER STRIPPING AND/OR DOOR SEALS, VOIDS, AND MISSING OR ILLEGIBLE STENCILS.

PHASE NO._____	Area Name and No. GENERAL	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Prior to inspection, check aircraft forms and records for recorded deficiencies (Table 1-2).				
ALL	2. Clean aircraft in accordance with TM 55-1520-227-23-1.				
ALL	3. Perform a Pre-inspection Maintenance Test Flight (MTF) in accordance with maintenance test flight requirements of TM 55-1500-210-MTF and TM 55-1500-328-25.				
ALL	4. After completion of Pre-inspection Maintenance Test Flight, perform post-flight inspection and note all discrepancies in applicable areas of this checklist.				
ALL	5. Lubricate in accordance with lubrication chart contained in TM 55-1520-227-23-1.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. GENERAL	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Fuel tanks shall be fully serviced prior to start of phased inspection. If maintenance is to be accomplished which requires defueling, this item may be deferred until after unscheduled maintenance is completed.				
ALL	7. Perform avionics inspections, check and test electrical equipment as required in TM 11-1520-209-20.				
ALL	8. Acoustic insulation for tears and security.				
ALL	9. Perform POWER ON checks in accordance with POWER ON section of this manual. Enter discrepancies in applicable area.				
4	10. Left and right fuel tank system as follows:				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. GENERAL	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
4	a. Fuel cells for deterioration (tank access and inspection panel removed; pods lowered and supported - do not remove hinge pins). Access 41 thru 44				
4	b. Leakage, separation of laminations, inner liners for green sponge like materials, nicked, cut or scratched liners.				
4	c. Chafing inner liners in areas adjacent to flexible fuel liners.				
4	d. Suction line screens for clearance.				
4	e. Cleanliness of tank interiors and deterioration of submerged hoses.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. GENERAL	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
4	f. Chafing of fuel pump electrical cables against fuel fittings and routing of fuel pump electrical cable inboard of fuel lines.				
4	g. Exterior of fuel cells for evidence of chafing (visible portion only). Anti-chafing tape for security. Hinge pins and fittings for cracks and security.				
4	h. Transmitter units for (remove from tanks) dents, cracks, loose or missing hardware, dirt and corrosion, electrical connections for dirt, corrosion and security.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. AIRCRAFT EXTERIOR - 1	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
1,3	1. Actuate pilot's door latch and jettison door. Inspect door and enclosure for damage and corrosion. Inspect seal for deterioration, cracks and distortion.				
1,3	2. Actuate co-pilot's door latch and jettison door. Inspect door and enclosure for damge and corrosion. Inspect seal for deterioration, cracks and distortion.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NOSE COMPARTMENT INTERIOR/EXTERIOR - 2	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Dynamic absorber for security of attachment. Support structure for cracks, distortion, and loose or missing rivets. Access 30				
ALL	2. Instrument lines, hoses, fittings and electrical wiring for chafing and security. Access 30				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. LEFT FUSELAGE/POD - 3	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Fwd wheel brake assembly for excessive wear of disk and linings (check for specified maximum allowable clearance between brake housing and brake disk with brake applied).				
ALL	2. Fwd landing gear support structure for damage and condition. Access 38				
ALL	3. APU fuel boost pump and fuel check valve for leakage. Access 2				
ALL	4. APU fuel boost pump electrical connector, mounting bracket and attaching hardware for security. Access 2				
ALL	5. Aft wheel brake assembly for excessive wear of disk and linings (check for specified maximum allowable clearance between brake housing and brake disk with brake applied). Access 3				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. LEFT FUSELAGE/POD - 3	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Bolts (2 each) on aft landing gear strut/spindle for corrosion and security. Access 3				
ALL	7. Aft landing gear drag links and support structure for security and damage. Access 3				
ALL	8. Inside of aft landing gear spindle for corrosion and lack of paint. Access 3				
ALL	9. Fwd and aft landing gear shock struts for specified air pressure (using gage) and extension. Access 3, 4, 35, 38				
ALL	10. Fwd and aft landing gear shock struts for specified fluid level. Access 3, 4, 35, 38				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RAMP - 4	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	Phase inspection not required.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RIGHT FUSELAGE/POD-5	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Aft wheel brake assembly for excessive wear of disk and linings (check for specified maximum allowable clearance between brake disk with brake applied). Access 4				
ALL	2. Aft landing gear drag links and support structure for security and damage. Access 4				
ALL	3. Bolts (2 each) on aft landing gear strut/spindle for corrosion and security. Access 4				
ALL	4. Inside of aft landing gear spindle for corrosion and lack of paint. Access 4				
ALL	5. Forward wheel brake assembly for excessive wear of disk and linings (check for specified maximum allowable clearance between brake housing and brake disk with brake applied).				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RIGHT FUSELAGE/POD-5	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Fwd landing gear and support structure for damage and condition. Access 35				
ALL	7. Fwd and aft landing gear shock struts for specified air pressure (using gage) and extension. Access 3, 4, 35, 38				
ALL	8. Fwd and aft landing gear shock struts for specified fluid level. Access 3, 4, 35, 38				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. AFT PYLON/COMBINING XMSN - 6	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Forward, aft, combining and engine transmission oil coolers for cracks at mounting points and security. Access 5,6				
ALL	2. Lubrication and hydraulic lines and hoses and electrical wire bundles throughout oil cooler area for chafing, damage, proper support and security. Lines and hoses for leakage (TM55-1500-204-25/1). Access 5,6				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. AFT ROTOR/AFT VERTICAL SHAFT - 7	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Shock absorbers, bearings for wear, unbonding, security and cracks. On CH-47B with 114H5900 shock absorbers direct particular attention to the thread on the rod end.				
1,3	2. Rotary-wing head retaining nut for specified torque.				
ALL	3. Connecting link assemblies (pitch links) for security (boots unzipped). Upper and lower rod end bearings for radial and axial play. Access 7,8				
ALL	4. Perform droop stop assembly functional check.				
ALL	5. Flight control bellcranks, support assemblies, idlers, and connecting links (safety blocks installed) for looseness, distortion, damage, cracks, and security. Swaged inserts for security (no looseness permitted). Access 7,8				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. AFT ROTOR/AFT VERTICAL SHAFT - 7	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Flight control pneumatic system pressure regulator inlet and vent filters for contamination. Remove, inspect and clean filters. Access 7				
ALL	7. Dynamic absorbers for security. Support structure for cracks, distortion, and loose or missing rivets. Access 9,10				
ALL	8. Fan assembly for security of Marman clamp. Access 11, 12				
ALL	9. Fan and drive shaft adapters and plate assembly for cracks and security. Access 11, 12				
ALL	10. Fan assembly housing and adjacent structural area for cracks and damage. Access 11, 12				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NO. 1 ENGINE/XMSN/SHAFT - 8	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Engine interstage air-bleed strainer for contamination. Remove, inspect, and clean strainer. Access 13, 14				
ALL	2. Engine combustion chamber housing welded areas for cracks. Access 13, 14				
ALL	3. Engine accessories for leakage, damage and security. Access 13, 14				
ALL	4. Fuel control for leakage, damage, and security. Inlet guide vane control and inlet guide vanes for worn arms (TM 55-2840-234-24/2, Chapter 7, T55-L-11ASA engines only).				
ALL	5. Engine control actuators and linkage for security and mounting bracket for loose rivets. Access 13, 14				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NO. 1 ENGINE/XMSN/SHAFT - 8	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Engine fuel manifold, installation for loose studs or indications of fuel leakage. Access 13, 14				
ALL	7. Lubrication, hydraulic, fuel, anti-icing lines and hoses throughout area for leakage, chafing, damage, proper support and security. Access 13, 14				
ALL	8. Engine electrical wiring for chafing, damage, proper support and security. Access 13, 14				
ALL	9. Engine mounts and adjacent strutural area for cracks and mounting bolt security. Replace engine aft connecting link (114PS223 series) with new like item. Check gap on forward mount cap. Access 13, 14				
ALL	10. Fire shields for indications of scorching. Access 13, 14				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NO. 1 ENGINE/XMSN/SHAFT - 8	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4	11. Deleted.				
ALL	12. No. 1 engine hot air transfer tube for damage. Access 13, 14				
ALL	13. No. 1 engine transmission for leakage. Access 15, 16				
ALL	14. Lubrication and hydraulic lines and hoses and electrical wire bundles throughout area on left side for chafing, damage, proper support and security. Lines and hoses for leakage (TM 55-1500-204-25/1). Access 15,16				
ALL	15. No. 1 engine transmission to combining transmission drive shafting for scoring and cracks. Access 15, 16, 17				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NO. 2 ENGINE/XMSN/SHAFT - 9	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Engine interstage air-bleed strainer for contamination. Remove, inspect and clean strainer. Access 18, 19				
ALL	2. Engine combustion chamber housing welded areas for cracks. Access 18, 19				
ALL	3. Engine accessories for leakage, damage and security. Access 18, 19				
ALL	4. Fuel control for leakage, damage, and security. Inlet guide vane control and inlet guide vanes for worn arms (TM 55-2840-234-24/2, Chapter 7, T55-L-11A&A engines only).				
ALL	5. Engine control actuators and linkage for security and mounting bracket for loose rivets. Access 18, 19				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. NO. 2 ENGINE/XMSN/SHAFT - 9	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Results and/or Remarks	Action Taken	Initial
ALL	6. Engine fuel manifold, installation for loose studs or indications of fuel leakage. Access 18, 19				
ALL	7. Lubrication, hydraulic, fuel, anti-icing lines and hoses throughout area for leakage, chafing, damage, proper support and security. Access 18, 19				
ALL	8. Engine electrical wiring for chafing, damage, proper support and security. Access 18, 19				
ALL	9. Engine mounts and adjacent structural area for cracks and mounting bolt security. Replace engine aft connecting link (114PS223 series) with new like item. Check gap on forward mount cap. Access 18, 19				
ALL	10. Fire shields for indications of scorching. Access 18, 19				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

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PHASE NO._____	Area Name and No. NO. 2 ENGINE/XMSN/SHAFT - 9	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4	11. Deleted				
ALL	12. No. 2 engine hot air transfer tube for damage. Access 18, 19				
ALL	13. No. 2 engine transmission for leakage. Access 20, 21				
ALL	14. Lubrication, hydraulic lines, hoses, and electrical wire bundles throughout area on right side for chafing, damage, proper support, and security. Lines and hoses for leakage (TM 55-1500-204-25/1). Access 17, 20, 21				
ALL	15. No. 2 engine transmission to combining transmission drive shafting for scoring and cracks. Access 17, 20, 21				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. TUNNEL - 10	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Synchronizing drive shaft plate assembly recesses in tunnel structure for cracks. Drain holes for obstruction. Access 17, 22 thru 27				
ALL	2. Flight control connecting links, idlers, and walking beams (safety block installed) within tunnel for looseness, distortion, damage, cleanliness, security, and cracks in tubes, crevices, and rod end attachments. Swaged inserts for security (no looseness permitted). Access 17, 22 thru 27				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. FWD ROTOR CROWN/ROTOR/XMSN - 11	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Fwd upper and mixing flight control connecting links, bellcranks, and supports (safety blocks installed) for looseness, distortion, damage, security, corrosion at attaching bolts, and cracks in tubes and at rod end attachments. Swaged inserts for security (no looseness permitted). Access 28, 29				
ALL	2. Shock absorbers, bearings for wear, unbonding, security, and cracks. On CH-47B with 114H5900 shock absorbers direct particular attention to the thread on the rod end.				
1,3	3. Rotary-wing head retaining nut for specified torque.				
ALL	4. Connecting link assemblies (pitch links) for security (boots unzipped). Upper and lower rod end bearings for radial and axial play. Access 28, 29				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

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PHASE NO._____	Area Name and No. FWD ROTOR CROWN/ROTOR/XMSN - 11	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	5. Inspect droop stop assembly for wear, damage, and security.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. COCKPIT INTERIOR - 12	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Drain pitot-static system (4 places).				
ALL	2. Brake system components for security, damage, and leakage.				
ALL	3. Heating and defrosting outlets for obstructions, cracks, security, and proper control operation.				
ALL	4. Pilot's and copilot's seat, supporting structure, and tracks for cracks, damage and freedom of movement.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No.	Aircraft Serial No.	Date
	COCKPIT UNDER FLOOR - 13		

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	Phase inspection not required.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. LEFT EQUIPMENT COMPARTMENT - 14	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Thrust, pitch, roll and yaw viscous damper lever for loose rivets.				
ALL	2. Pitch, roll and yaw SAS dual extensible links for proper installation, leakage, and cotter pin installed in the rod end attaching nut. Make sure the collar of the adjusting nuts for the transducer are against the drive plate.				
ALL	3. Differential collective pitch stick trim actuator, speed trim actuator, and connector plugs for security.				
ALL	4. Flight control connecting link tubes and rod end attachments (safety blocks installed) for looseness, cracks, distortion, damage and security. Swaged inserts for security (no looseness permitted).				
ALL	5. Drain SAS lines (4 places).				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO.	Area Name and No.	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. Flight control bellcranks, idlers, transfer bellcranks, and support structure for distortion, damage, cracks, looseness and security (safety blocks installed).				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RIGHT EQUIPMENT COMPARTMENT - 15	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Heater exhaust stack, shroud assembly, clamp and attachment brackets for cracks, hot spots, and security.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. CABIN INTERIOR - 16	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Lubrication, hydraulic, and fuel lines and hoses throughout cabin area for chafing, damage, proper support, security, and leakage (TM 55-1500-204-25/1).				
2,4	2. Fuel system relay boxes (sta 320 left and right sides) for security. Connector plugs for dirt, corrosion, and security.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. CABIN UNDER FLOOR - 17	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4	1. External cargo hook carriage steel side plates (carriage removed) for damage and elongated holes. Access 33, 34				
ALL	2. External cargo hook and beam for cracks, distortion, dirt accumulation, wear, leaks and corrosion. Access 33, 34				
ALL	3. External cargo hook rollers and pheonolic blocks for cracks, wear and freedom of movement on beam assembly. Access 33, 34				
ALL	4. External cargo hooks beam support mounts for wear and cracks (beam removed). Adjacent structure for cracks, nicks, distortion, dirt accumulation, corrosion, and loose or missing rivets (beam removed). Access 33, 34				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RAMP INTERIOR/AFT TRANSMISSION/APU - 18	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Flight control connecting link tubes and rod end attachments (safety blocks installed) for looseness, cracks, distortion, damages and security. Swaged inserts for security (no looseness permitted).				
2,4	2. Left bellcrank support assembly installation (sta 527, WL + 63, BL 11) and adjacent structure for cracks.				
2,4	3. Right bellcrank support assembly installation (sta 539, WL + 72, BL 9) and adjacent structure for cracks.				
ALL	4. Generator wires for chafing and security. Terminals and terminal covers for cracks.				
ALL	5. Lubrication, hydraulic, fuel and fire extinguisher lines and hoses for chafing, damage, proper support, security and leakage. Electrical wire bundles for chafing, damage, proper support, and security.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. RAMP INTERIOR/AFT TRANSMISSION/APU - 18	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	6. APU ejector assembly (tailpipe) and link rods for cracks and security.				
ALL	7. APU mounts and adjacent structure for cracks, distortion, and loose rivets.				
2,4	8. Replace APU main fuel filter and clean or replace fuel pump filter element.				
ALL	9. APU mounting bolts for specified torque.				
3	10. Frame structure at Sta 534 left and right sides for cracks. Give attention to the area from WL + 47 to WL + 65 between the cabin crown splice and the pylon field splice. Use Zyglo or dye-penetrant on the inner faces of the Cap T-Extrusion to isolate any existing cracks.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	WARNING Before performing each power on check, make sure all personnel and equipment are clear of the system being tested. The aircraft must be clear of all obstructions. Injury to personnel or damage to aircraft may result.				
ALL	1. Check SAS ports heaters.				
ALL	2. Check pitot tube for obstructions and heat.				
ALL	3. Check landing and search lights for operation.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	4. Check anti-collision lights for operation.				
ALL	5. Check navigation lights for operation.				
ALL	6. Check formation lights for operation.				
ALL	7. Engine anti-ice valves (1 or 2 per engine) for operation (audibly). Access 13, 14, 18, 19				
ALL	8. Check cabin lights for operation.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	9. Perform a controls system operational and interference check. Access 5, 7, 8, 17, 22 thru 29				
ALL	10. Check winch cable for kinks and fraying. Level wind and limit switches for proper operation.				
ALL	11. Check heater solenoid valve, lines and connections for leakage (booster pumps ON), chafing and security. Access 33				
ALL	12. Check cockpit utility instruments and cockpit lights for operation.				
ALL	13. Perform functional test on all chip detector warning systems (chip detectors connected).				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	14. Check fuel quantity indicator for readings comparable to known contents of tanks (fuel tanks full).				
ALL	15. Perform a controls looseness check at the pivoting and swiveling actuators. Access 7, 8, 28, 29				
ALL	16. Check fwd and aft pivoting and swiveling actuators for leakage and security of adjacent support structure, bearing and bearing retainer plate for wear and looseness. Missing hardware and cracks in the support structure (armor removed). Upon reinstallation of armor, check for cracks, security and chafing with hydraulic lines and adjacent structures. Access 7, 8, 28, 29				
ALL	17. Check fwd and aft slider assembly and spherical bearing ball surfaces for condition. Check surface coating for flaking, peeling, pitting and blistering. Displace thrust lever full up and down and inspect all exposed surface areas. Access 7, 8, 28, 29				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	18. Check fuel valves and crossfeed valves for proper operation and lights.				
ALL	19. Check stick-boost actuators for leakage and security. Stick-boost actuator pivot bolts, 114H4966-1, for rotational freedom.				
ALL	20. Check all fuel system lines, hoses, fittings and connections to include in between tanks, for leakage (boost pumps on). Access 2, 33 thru 37				
ALL	21. Check all hydraulic systems, components and lines for leakage. Access 3, 4, 5, 7, 8, 17, 22 thru 29, 33 and 36				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PHASE NO._____	Area Name and No. POWER ON CHECKS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	22. Check No. 1 and No. 2 engine oil level indicators for proper operation of low level warning system (move indicator arm to low level mark). Check that the low level caution light in the cockpit comes ON.				
	Access 13, 14, 18, 19				
ALL	23. Perform functional check of No. 1 and No. 2 engine transmission debris indicating screen warning systems.				
ALL	24. Perform functional check of No. 1 and No. 2 ENG XMSN HOT OIL warning systems.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

*U.S.Government Printing Office:1987-754-043/40634

PHASE NO._____	Area Name and No. FINAL INSPECTION REQUIREMENTS	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Perform a No. 1 and No. 2 engine drive shaft vibration test following shaft adapter spline lubrication (aircraft with T55-L-11 series engine only). Access 13, 14, 18, 19				
ALL	2. Insure that all entries on forms, records and work sheets have been completed or updated and new forms initiated as required and/or have been carried forward on DA Form 2408-13 or DA Form 2408-14.				
ALL	3. Inspect all work areas for loose hardware, tools, rags, and other FOD. Give particular attention to the top of the aircraft and to the engine inlet fairings.				

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

Order of the Secretary of the Army:

E. C. MEYER
General, United States Army
Chief of Staff

icial:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

TRIBUTION:
be distributed in accordance with DA Form 12-31, PM Maintenance requirements
CH-47B/C & D aircraft.

☆ U. S. GOVERNMENT PRINTING OFFICE : 1989 O - 242-451 (7106)

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC JOHN DOE
COA, 3d ENGINEER BN
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 55-1520-227-PM	8 Oct 1982	CH-47B & CH-47C HELICOPTERS, PHASED MAINTENANCE CHECKLIST

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
6	2-1 a			In line 6 of paragraph 2-1a the manual states the engine has 6 Cylenders. The engine on my set only has 4 Cylenders. Change the manual to show 4 Cylenders.
B1		4-3		Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.
125	line 20			I ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

Sample

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (262) 317-7111

SIGN HERE John Doe
JOHN DOE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.
DRSTS-M Overprint 1, 1 Nov 80

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2 Reverse of DRSTS-M Overprint 2, 1 Nov 80

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DOD 314

COMMANDER
U S ARMY SUPPORT AND AVIATION MATERIEL READINESS COMMAND
ATTN: DRSTS-MPSD
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MO 63120

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
nches	centimeters	2.540	ounce-inches	newton-meters	.007062
eet	meters	.305	centimeters	inches	.394
ards	meters	.914	meters	feet	3.280
niles	kilometers	1.609	meters	yards	1.094
quare inches	square centimeters	6.451	kilometers	miles	.621
quare feet	square meters	.093	square centimeters	square inches	.155
quare yards	square meters	.836	square meters	square feet	10.764
quare miles	square kilometers	2.590	square meters	square yards	1.196
cres	square hectometers	.405	square kilometers	square miles	.386
ubic feet	cubic meters	.028	square hectometers	acres	2.471
ubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
luid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
ints	liters	.473	milliliters	fluid ounces	.034
uarts	liters	.946	liters	pints	2.113
allons	liters	3.785	liters	quarts	1.057
unces	grams	28.349	liters	gallons	.264
ounds	kilograms	.454	grams	ounces	.035
hort tons	metric tons	.907	kilograms	pounds	2.205
ound-feet	newton-meters	1.356	metric tons	short tons	1.102
ound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

PIN : 014874-000